LEFSCHETZ FIXED POINT THEOREMS FOR COMPACT MORPHISMS

RAVI P. AGARWAL* AND DONAL O'REGAN**

Dedicated to Professor Ioan A. Rus on the occasion of his 70th birthday

*Department of Mathematical Sciences
Florida Institute of Technology
Melbourne, Florida 32901, USA
E-mail: agarwal@fit.edu

**Department of Mathematics
National University of Ireland, Galway, Ireland
E-mail: donal.oregan@nuigalway.ie

Abstract. The Lefschetz fixed point theorem is extended to compact morphisms defined on admissible subsets of a Hausdorff topological space. Also using the projective limit approach we present new Lefschetz fixed point theorems for compact morphisms defined on PRLF’s or CPRLF’s.

Key Words and Phrases: compact morphisms, Hausdorff topological space, projective limit approach, Lefschetz fixed point theorem.

2000 Mathematics Subject Classification: 47H10.

References


Received: May 9, 2006; Accepted: May 26, 2006.